

Release notes for ENDF/B Development n-081_T1_205
evaluation

ENDF
B-VII.dev

April 26, 2017

- psyche Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 0 / AT RESONANCE ENERGY 5.09800E+03 EV. THE GAMMA WIDTH 3.87000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.64283E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 0

AT RESONANCE ENERGY 5.09800E+03 EV. THE GAMMA WIDTH 3.87000E-01 DEVIATES TOO MUCH FROM THE AV

2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 0 / AT RESONANCE ENERGY 2.40400E+04 EV. THE GAMMA WIDTH 9.15131E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.64283E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 0

AT RESONANCE ENERGY 2.40400E+04 EV. THE GAMMA WIDTH 9.15131E-02 DEVIATES TOO MUCH FROM THE AV

3. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 0 / AT RESONANCE ENERGY 5.42500E+04 EV. THE GAMMA WIDTH 9.50000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.64283E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 0

AT RESONANCE ENERGY 5.42500E+04 EV. THE GAMMA WIDTH 9.50000E+00 DEVIATES TOO MUCH FROM THE AV

4. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 0 / AT RESONANCE ENERGY 7.87800E+04 EV. THE GAMMA WIDTH 3.03297E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.64283E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 0

AT RESONANCE ENERGY 7.87800E+04 EV. THE GAMMA WIDTH 3.03297E-01 DEVIATES TOO MUCH FROM THE AV

5. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 1.01820E+04 EV. THE GAMMA WIDTH 1.80000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 1

AT RESONANCE ENERGY 1.01820E+04 EV. THE GAMMA WIDTH 1.80000E-02 DEVIATES TOO MUCH FROM THE AV

6. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 1.17570E+04 EV. THE GAMMA WIDTH 1.06000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 1.17570E+04 EV. THE GAMMA WIDTH 1.06000E-01 DEVIATES TOO MUCH FROM THE AV

7. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 2.10790E+04 EV. THE GAMMA WIDTH 3.56694E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 2.10790E+04 EV. THE GAMMA WIDTH 3.56694E-02 DEVIATES TOO MUCH FROM THE AV

8. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 2.35740E+04 EV. THE GAMMA WIDTH 1.45859E+00 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 2.35740E+04 EV. THE GAMMA WIDTH 1.45859E+00 DEVIATES TOO MUCH FROM THE AV

9. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 2.67670E+04 EV. THE GAMMA WIDTH 9.25189E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 2.67670E+04 EV. THE GAMMA WIDTH 9.25189E-02 DEVIATES TOO MUCH FROM THE AV

10. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 3.44320E+04 EV. THE GAMMA WIDTH 4.73524E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 3.44320E+04 EV. THE GAMMA WIDTH 4.73524E-02 DEVIATES TOO MUCH FROM THE AV

11. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE ENERGY 4.49190E+04 EV. THE GAMMA WIDTH 3.06665E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 205. L = 1
AT RESONANCE ENERGY 4.49190E+04 EV. THE GAMMA WIDTH 3.06665E-02 DEVIATES TOO MUCH FROM THE AV

12. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 205. L = 1 / AT RESONANCE

ENERGY 4.93900E+04 EV. THE GAMMA WIDTH 4.80000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 205. L = 1

AT RESONANCE ENERGY 4.93900E+04 EV. THE GAMMA WIDTH 4.80000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 3.64477E-01 (0): Gamma width

13. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.36650E+04. STRENGTH FUNCTION IS 7.80000E-05 / STRENGTH FUNCTION 7.80000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 6.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 8.36650E+04. STRENGTH FUNCTION IS 7.80000E-05

STRENGTH FUNCTION 7.80000E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 6.00000E-04

... [61 more lines]

- recent Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)

=====

Retrieval Criteria----- MAT

File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)

Reactions with No Background- Output (Resonance Contribution)

... [511 more lines]

- fudge-4.0 Warnings:

1. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=1 at E=83665.0 eV, xs[1]/xs[0]=0.562915011248% > 0.1%

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.64%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 3.84%

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevelBreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statistical weights for L=1 sums to 2.25, but should sum to 3.0. You have too few channels for r

2. Calculated and tabulated Q values disagree.
reaction label 41: n[multiplicity:'2'] + Tl204 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7169011.572967529 eV vs -7.546e6 eV!

3. Calculated and tabulated Q values disagree.
reaction label 42: n[multiplicity:'3'] + Tl203 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13825108.2338562 eV vs -1.4202e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 43: n[multiplicity:'4'] + Tl202 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -21674346.30459595 eV vs -2.2051e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 44: Tl206 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6880744.324157715 eV vs 6.503e6 eV!

- njoy2012 Warnings:

1. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (0): HEATR/hinit (4)

---message from hinit---mf6, mt 16 does not give recoil za= 81204
 one-particle recoil approx. used.

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 81203
 one-particle recoil approx. used.

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 81202
 one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 91 does not give recoil za= 81205
 one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt102 does not give recoil za= 81206
 photon momentum recoil used.

- accelst Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

ACELST WARNING - Processing Ang.Dist.MT 2
E-grid non-monotonic 1.700000000E+01 1.700000000E+01

- endf2htm Warnings:

1. Build of a section of the HTML page failed because the format hasn't been implemented in ENDF2HTML.
MF32MT151: Unimplemented

At line 2659 of file endf.f
Fortran runtime error: Bad value during integer read